

How can I filter rows in a Pandas dataframe based on values in a list?

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The process of filtering rows in a Pandas dataframe based on values in a list involves using the Pandas `.isin()` function to check if the values in the desired column match any values in the specified list. This function returns a boolean series which can then be used to filter the dataframe using the Pandas `.loc` function. By specifying the boolean series as the indexing parameter, only the rows with matching values will be selected and returned. This method provides an efficient way to extract specific rows from a dataframe based on a given list of values.

Pandas: Filter Rows Based on Values in a List

You can use the following basic syntax to filter the rows of a pandas DataFrame that contain a value in a list:

```
df.isin()]
```

This particular example will filter the DataFrame to only contain rows where the team column is equal to the value A, B, or D.

The following example shows how to use this syntax in practice.

Example: Filter Pandas DataFrame Based on Values in List

Suppose we have the following pandas DataFrame that contains information about various basketball players:

```
import pandas as pd
```

```
#create DataFrame
```

```
df = pd.DataFrame({'team': ,  
'points': ,  
'assists': ,  
'rebounds': })
```

```
#view DataFrame
```

```
print(df)
```

```
team points assists rebounds
```

```
0 A 18 5 11
```

```
1 A 22 7 8
```

```
2 B 19 7 10
```

```
3 B 14 9 6
```

```
4 C 14 12 6
```

```
5 C 11 9 5
```

```
6 D 20 9 9
```

```
7 D 28 4 12
```

Now suppose that we would like to filter the DataFrame to only contain rows where the value in the team column is equal to A, B, or D.

We can use the following syntax to do so:

```
#filter for rows where team is equal to 'A', 'B' or 'D'
```

```
df.isin()]
```

```
team points assists rebounds
```

```
0 A 18 5 11
```

```
1 A 22 7 8
```

```
2 B 19 7 10
```

```
3 B 14 9 6
```

```
6 D 20 9 9
```

```
7 D 28 4 12
```

Notice that the filtered DataFrame only contains rows where the value in the team column is equal to A, B, or D.

Also note that you can use the `isin()` function to filter by numeric values.

For example, we can use the following code to filter for rows where the assists column is equal to 5 or 9:

```
#filter for rows where assists is equal to 5 or 9
```

```
df.isin()]
```

```
team points assists rebounds
```

```
0 A 18 5 11
```

3 B 14 9 6

5 C 11 9 5

6 D 20 9 9

Notice that the filtered DataFrame only contains rows where the value in the assists column is equal to 5 or 9.

Note: You can find the complete documentation for the pandas isin() function .

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